Rust

Work Order ID 94294	446666	Marie Arthur	197	
AX/OF/MINEGOR III U/I/U/I		6.00	A WES	0.4007
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December-05-12 2:13:48 PM

94294

Page 1

Item ID: Revision ID: Item Name:	D350=591=188 Aft Maintenance Step			Accept	*N90	<u> </u>	100)*	Setup Sta	1.71	S1* S2*
	12/05/12 Start Qty		*12* *12*		Cust Iten Custome						
Approvals:	Process Plan:QC:	Date:		Tooling: SPC (Y/N):		Date:		1	Run Sta Sto	1/1	R1* R2*
Sequence ID/ Work Center ID	Operation Descriptio			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr										
D2946	Rev B				DÃO					MUS	12-12-1
1 \\n DC Document Control		Memo	nd type labels as p	0.00 0.00 eer PPP D350-591-133	(15) ()))))) (CHG003			1)			12)
110				0.00							
110	Large Fab							12	d	As.	12-12-0
Large Fab]	Memo		0.00					7		
Large Fab		1-Cut D2622-120 extr	rusion to 62.06" lo	ong as per Dwg D2946	5						
		2-Deburr **Ensure that 57.09" D350-591-215/-216.*		ion is kept and identify	y to be used for						

Work Order ID 94294 Page 2 December-05-12 2:13:48 PM Item ID: D350-591-133 Accept *N900040100* Setup Start **Revision ID:** Stop Aft Maintenance Step **Item Name:** 12/05/12 **Start Qty: 12.00 Start Date: Cust Item ID:** Required Date: 12/12/12 Req'd Qty: 12.00 **Customer:** Reference: Run Start **Approvals:** Process Plan: Date: Tooling: Date: Stop QC: _____ Date: ____ SPC (Y/N): Date: Tool ID Tool # Plan Reject Reject Sequence ID/ Operation Accept Insp. Set Up/ Code Qty Number Stamp Work Center ID Description **Qty Run Hours** 0.00 120 QC6- Inspect dimensions to drawing *120* QC 0.00 Memo Quality Control 0.00 130 12 \$ 12.12.08 Ac 12-12-10 Large Fab *130* 0.00 Large Fab Memo 1-Deburr and Bevel ends for welding Large Fab 2-Weld (1) End Cap and (2) Lugs using Jig DT8440 as per Dwg D2946 A/RAluminum Rod 122 352 3-Grind End Cap welds flush

140

\$ 4

QC9- Inspect visual per QSI004- Fusion Welds

Memo

0.00

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0.00

Quality Control

(D) BB-D

70A.0 0.9

Work Order ID 94294 *94294* Page 3 December-05-12 2:13:48 PM D350-591-133 Accept Item ID: *N900040100* Setup Start Revision ID: Aft Maintenance Step Item Name: Start Date: 12/05/12 **Start Otv:** 12.00 **Cust Item ID:** Required Date: 12/12/12 Rea'd Otv: 12.00 **Customer:** Réference: Run Start Tooling: Process Plan: Date: Approvals: Date: Stop Date: SPC (Y/N): Date: Reject Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Insp. Work Center ID Description **Run Hours Qty** Otv Code Number Stamp 150 OC5- Inspect part completeness to step on W/O 0.00 *150* 12-12-10 OC 0.00 Memo **Quality Control** Chemical Conversion Coat per QSI005 4.1 0.00 160 12 \$ le 12-12-10 *160* HandFinish 0.00 Memo Hand Finishing 170 QC3- Inspect Part Finish 0.00 12

0.00

Memo

QC.

Quality Control

Work Order ID 94294 Page 4 December-05-12 2:13:48 PM D350-591-133 Item ID: Accept *N900040100* Setup Start **Revision ID:** Aft Maintenance Step Item Name: **Start Oty: 12.00** Start Date: 12/05/12 **Cust Item ID:** Req'd Oty: 12.00 Required Date: 12/12/12 **Customer:** Reference: Run Start **Process Plan:** Date: Tooling: Approvals: Date: Stop OC: Date: SPC(Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Otv Otv **Run Hours** Code Number Stamp 180 0.00 Large Fab *120* Large Fab 0.00 Memo Large Fab Remove alodine prior to welding. Weld end cap as per Dwg D2946. Grind end ALROD BATCH: 122358 A/R QC10- Inspect visual per QSI004- ground welds 190 0.00 *100* 19-19-11 OC 0.00 Memo Quality Control QC5- Inspect part completeness to step on W/O 0.00 200 19-19-11

0.00

Memo

Quality Control

Work Ord December-05-1				*942	294*			Page 5
Item ID: Revision ID:	D350-591-			Accept	*N900040	100*	Setup Start Stop	*NS1*
Item Name: Start Date: Required Date Reference:	Aft Maintens 12/05/12 :: 12/12/12	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item ID: Customer:			*NS2*
Approvals:	Process P QC:	lan:	Date:	Tooling: SPC (Y/N):	Date:		Run Start Stop	*NR1* *NR2*
Sequence ID/ Work Center I 210 *210* HandFinish Hand Finishing	ID	Operation Description Chemical Conversion Co Memo	at per QS1005 4.1	Set Up/ Run Hours 0.00		Plan Accep Code Qty		Reject Insp. Number Stamp
220 *920* Powdercoat Powder Coating	183	White Gloss(Ref.4.3.5.1) Memo START TIM OVEN TEM FINISH TIM	1230 e: 1230 perature: 32	0.00 0.00 F		12 x,	Ø	M/
230 *230 *230* HandFinish Hand Finishing	J	Wing Walk as per dwg Q Memo	E:	0.00		1 <u>2 X</u>		Ill ulalu

Quality Control

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Work Order ID 94294 *94294* Page 7 December-05-12 2:13:48 PM Item ID: D350-591-133 Accept *N900040100* Setup Start Revision ID: Stop Aft Maintenance Step Item Name: *12* 12/05/12 **Start Qty: 12.00 Start Date: Cust Item ID:** Required Date: 12/12/12 Reg'd Qty: 12.00 **Customer:** Reference: Run Start Process Plan: Date: Tooling: **Approvals:** Date: Stop QC: Date: SPC(Y/N): Date: Sequence ID/ **Tool ID** Operation Set Up/ Tool # Plan Accept Reject Reject Insp. Number Stamp Work Center ID Qty Qty Description **Run Hours** Code 270 0.00 Packaging *270* Packaging 0.00 Memo Identify and pack for shipping as per PPPD350-591-133 Packaging Location: 4059 PPP Rev: QC21- Final Inspection - Work Order Release 0.00 280

0.00

Memo

Quality Control

280

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ML5 12-12-12 WL2.1212

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N. Carlotte			
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	3300		

Required Date: 12/12/12

Required Qty: 12.00

Work Order ID:

94294

Parent Item:

D350-591-133

Parent Item Name:

Aft Maintenance Step

Comments:

IPP Rev:B05.10.14Modified step 10KJ/EC

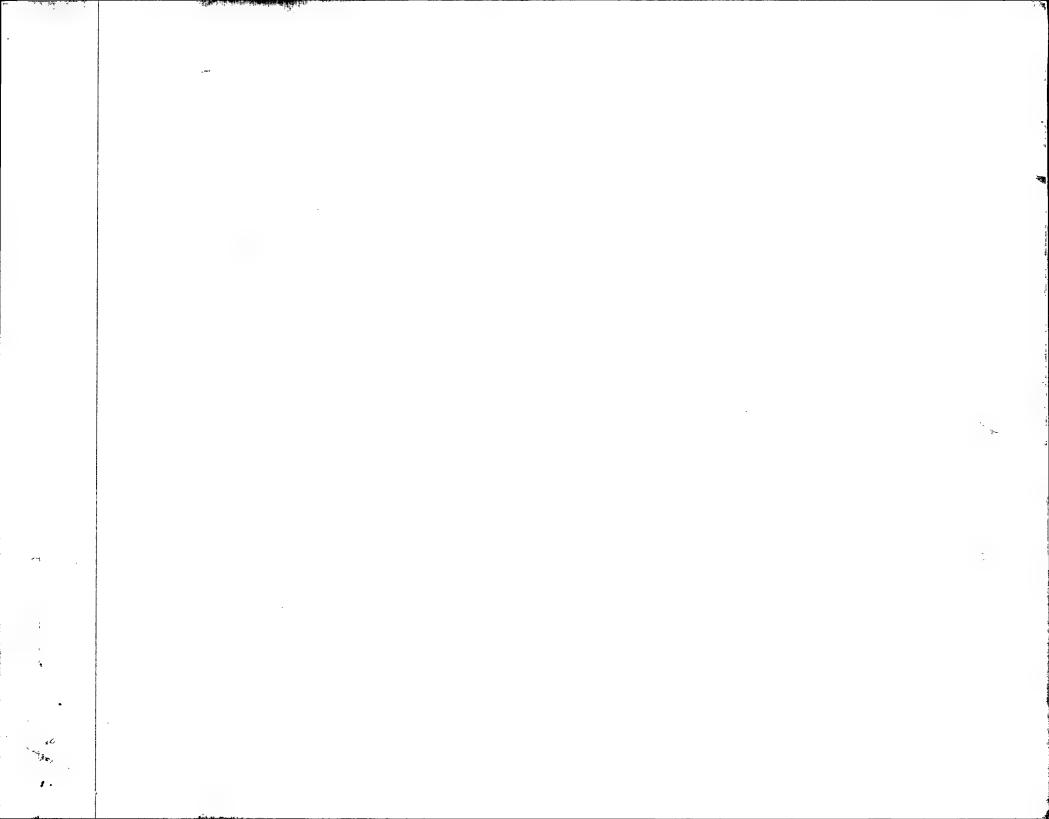
Comments.	IPP Rev:B06.07.19		EC										
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4.11A Bolt		Purchased	No			250	Each	252.0000	4	48	- 7	В	N.
anc lare	13>			Location		Loc Oty	Lo	c Code					
•				FG		20			(
				120	731	20			· ·				
				ST356		232							
				120	731	16							1
				122	2808	66			122	808			
				123	900	150							
Bolt		Purchased	No			250	Each	354.0000	8	96	- 9	B 13	4/2/12
< 1 1	∞			Location		Loc Qty	<u>Lo</u>	c Code			•		

Sms	XCI
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			(Fall 1977)	712-1-0
Location	Loc Qty	Loc Code		
FG	5			
122141	5			
ST357	349			
115374	1			
120187	13		<u></u>	
121068	17			
121708	4			
122141	2			
122800	12			
123352	150		123352	
123900	150			

Start Date: 12/05/12

Start Qty: 12.00

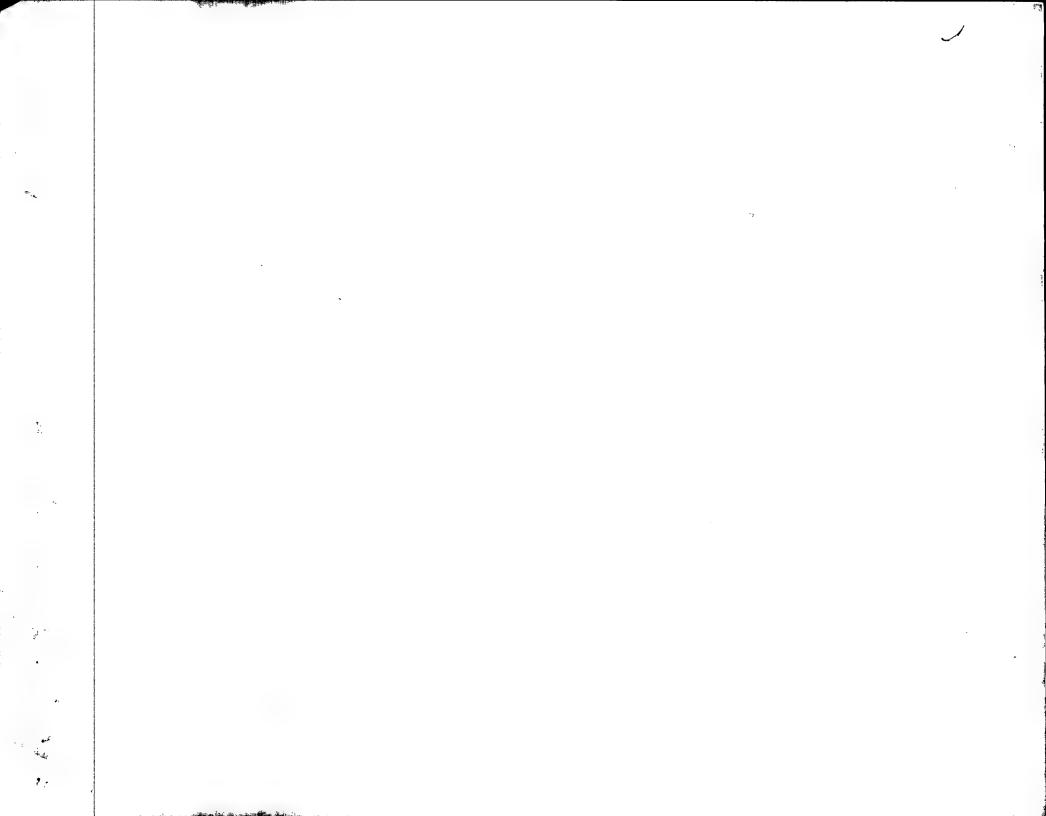


December-05-12 2:13:47 PM

Work Order ID: 94294 Parent Item: D350-591-133 Required Date: 12/12/12 **Start Date: 12/05/12** Aft Maintenance Step Parent Item Name: Required Oty: 12.00 **Start Oty: 12.00** 250 No Each 151 0000 Purchased 96 Bolt Location Loc Oty Loc Code SM3 1200 FG 5 121541 5 ST357 146 120498 8 122814 31 123352 107 No 250 Each 193.0000 Purchased Location Loc Qty Loc Code ST355 193 120770 2 17166 122141 91 123352 100 NAS1149D0463J 123355 48 No 250 Each 29.0000 Purchased 12/12/12 Washer 5W3 1200 Location Loc Qty Loc Code ST351 29 116289 8 119097 21 D2230_1 Manufactured No 250 Each 210.0000 Lug Loc Qty Location Loc Code FG 84136 4 ST469 206 89415 25 89783 21

120 40 December-05-12 2:13:47 PM

Work Order ID: 94294 Parent Item: D350-591-133 **Start Date: 12/05/12** Required Date: 12/12/12 · Parent Item Name: Aft Maintenance Step Start Qty: 12.00 Required Qty: 12.00 No 250 Manufactured Each 330.0000 48 Location Loc Qty Loc Code FG 89045 Return2012 89082 ST469 322 89782 19 89950 200 90514 92287 102 110 Manufactured No ' Each 130.1300 0.52 6.24 Location Loc Qty Loc Code WA003 130.13 2 46910 64409 6 66970 7.7 68293 0.25 72131 0.42 75781 2 77612 7.36 81507 1.88 83894 12.38 88513 7.14 89750 83 No 250 141.6162 Manufactured Rubber Extrusion cut (8) at 3.00" Location Loc Qty Loc Code ST410 141.6162052 5m 10) 0.3 70987 83560 83560 141.316205



December-05-12 2:13:48 PM

Work Order ID:

94294

Parent Item:

D350-591-133

·Parent Item Name:

Aft Maintenance Step

Start Date: 12/05/12

Required Date: 12/12/12

Start Qty: 12.00

Required Qty: 12.00

D2734

Step End Plate

Manufactured

Manufactured

No

No

130

Each

147.0000

Loc Code

24

Location	Loc Qty
WA003	147
80682	6
84563	10
	26
91761	105
	250

302.8939

1.26

15.12 - 23

Abrasion Strip (2X) 4.00" X 7.20" per dwg

Location	Loc Qty	Loc Code
ST415	302.8939	
63735	0.6696	
68076	0.3149	
71164	8.46	

81875 6.398 86905 0.9569 89352 70.0945 216 90764

Each 36.0000

112.12.06

Step Mounting Plate

Step Mounting Plate

D2944

Manufactured

Manufactured

No Location

No

Loc Qty 36 73427 4 32 89394 250 Each

130

Loc Code

19.0000

Location ST022

WA003

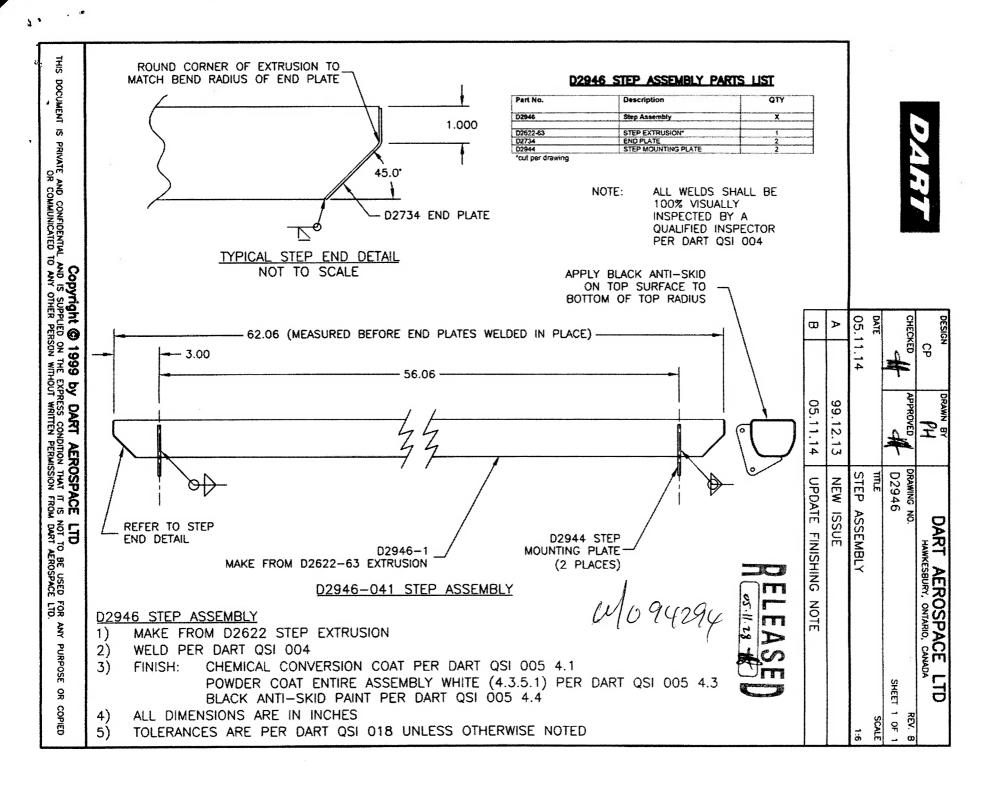
Loc Qty 19 Loc Code

91562

91562

19

Shop Packet Print



REFERENCE ONLY SWS



D350-591 Page 22 of 23

5. PARTS LIST

Qty -111A	Qty -113	Qty -115	Qty -117A	Qty -119	-133	Part Number	Description
X						D350-591-111A	Heli-Access-Step ™, Long Step – High Skid
	Х					D350-591-113	Heli-Access-Step ™, Short Step High Skid
		Х				D350-591-115	Heli-Access-Step ™, Short Step – Low Skid
			X			D350-591-117A	Heli-Access-Step ™, Pre-Flight Step
				X		D350-591-119	Heli-Access-Step ™, Long Step – Low Skid
					Х	D350-591-133	Heli-Access-Step ™, Aft Maintenance Step
	1		 			D2310	STEP ASSEMBLY (HIGH-SHORT)
1						D2311	STEP ASSEMBLY (HIGH-LONG)
•		1				D2354	STEP ASSEMBLY (LOW-SHORT)
			<u> </u>	1		D2355	STEP ASSEMBLY (LOW-LONG)
					1	D2946-041	STEP ASSEMBLY (MAINTENANCE)
4	2	2	2	2		D2171	CLAMP
4	2	2	2	2		D2182B035	CUSHION
					-4-	-D2230-1	==MOUNTING-EUG=>
			 		-4	=D2230=3=====	==MOUNTINGEUG>
8	4	4	4	4		D2274	RADIUS BLOCK
			1			D2362-041	SUPPORT BRACKET
2	1			1		D2362-3	SUPPORT BRACKET
		1				D2362-5	SUPPORT BRACKET
2	1	1	1	1	~2=	ED2856-400-720	= =ABRASION:STRIP:
					-1=-	-D2945	- MOUNTING PLATE
2	2	2	 	2		AN3-37A	BOLT
					62-	=AN4=7A=====	= =BOLT
					-A	_AN4-11A	BOLT
					8	AN4-14A	BOLT
		4				AN4-16A	BOLT
8	4			4		AN4-20A	BOLT
1	1	1	4	1		AN4-22A	BOLT
4	4	4		4		AN960JD10	WASHER-
10	6	2	4	6	4 4==	AN960JD416	WASHER
		4				AN960JD416L	WASHER
2	2	2		2		MS21042L3	NUT
9	5	5	4	5	C14=	=MS21042L4====	

Qty -121	Qty -122	Qty -123	Qty -124	Part Number	Description
Х				D350-591-121	Heli-Access-Step ™, Short Step – High Skid, LH
	Х			D350-591-122	Heli-Access-Step ™, Short Step – High Skid, RH
		Х		D350-591-123	Heli-Access-Step ™, Short Step – Low Skid, LH
			Х	D350-591-124	Heli-Access-Step ™, Short Step – Low Skid, RH
1				D2351-041	STEP ASSEMBLY (HIGH-SHORT, LH)
	1			D2351-042	STEP ASSEMBLY (HIGH-SHORT, RH)
		1		D2356-041	STEP ASSEMBLY (LOW-SHORT, LH)
			1	D2356-042	STEP ASSEMBLY (LOW-SHORT, RH)
1	1	1	1	D2230-1	MOUNTING LUG
1	1	1	1	D2230-3	MOUNTING LUG
1	1	1	1	D2856-400-720	ABRASION STRIP
2	2	2	2	AN3-37A	BOLT
3	,3	3	3	AN4-13A	BOLT
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD416	WASHER
2	2	2	2	MS21042L3	NUT
3	3	3	3	MS21042L4	NUT

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Revision: G

Date: 08.10.06

REFERENCE ONLY 5m/>

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-591 REV. G OR EARLIER AND

INSTRUCTIONS OF CONTINUED AIRWORTHINESS ICA-D350-591 REV. 2 OR EARLIER

REF CANADIAN STC: SH92-6 REF FAA STC: SH967NE

For D350-591-121/-122/-123/-124/-133 steps, customers have the option of installing D2732-030 cushions under the D2230-1/-3 clamps to accommodate varying crosstube diameters and to improve fit. It is also acceptable to use longer or shorter AN4 bolts, and/or extra AN960JD416 washers under the nut to ensure 1.5 to 4 threads in safety. See Figure 1 on sheet 2 of this service instruction for reference.

For D350-591-121/-122 steps at CHG 005, D350-591-123/-124 steps at CHG 004, and D350-591-133 steps at CHG 003, the parts list of D350-591 Rev. G and ICA-D350-591 Rev. 2 is amended as follows:

ADD:

Qty -121	Qty -122	Qty -123	Qty -124	-133	Part Number	Description
Х					D350-591-121	Heli-Access-Step ™, Short Step – High Skid, LH
	х				D350-591-122	Heli-Access-Step ™, Short Step – High Skid, RH
		X			D350-591-123	Heli-Access-Step ™, Short Step - Low Skid, LH
			X		D350-591-124	Heli-Access-Step ™, Short Step - Low Skid, RH
				Х	D350-591-133	Heli-Access-Step ™, Aft Maintenance Step
2	2	2	2	c8=	-D2732-030	-CUSHION
	2	2	2	68 =	-AN4-16A	BOLT

The DSI-9459-011 kit is available for customers with earlier model D350-591-121/-122/-123/-124 steps. Longer AN4 bolts are provided to fasten the clamps. The DSI-9459-013 kit is available for customers with earlier model D350-591-133 steps.

Qty -011	Qty -013	Part Number	Description		
X		DSI-9459-011	Rubber Cushion Kit (for -121/-122/-123/-124 steps)		
	Х	DSI-9459-013	Rubber Cushion Kit (for -133 steps)		
2	8	D2732-030	CUSHION		
2	8	AN4-16A	BOLT		

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:
D. SHEPHERD (DE # 02)

DATE:
09.06.24
CERT. NO.:
SH92-6
ISSUE NO.:
11

В	AN4-16	A WAS -17A F	OR -013/-133 KIT	CP	09.06.24	
A	NEW IS	SSUE		CP	09.04.17	
REV.			DESCRIPTION	BY	DATE	
DESIGN (7)			DART AEROSPACE LTD			
DRAWN		9	HAWKESBURY, ONTARIO, CANADA			
CHECKED		PH	DRAWING NO.		REV. B	
MFG. APPR.		NA	DSI 9459		SHEET 1 OF 2	
APPROVED		1112	TITLE		SCALE	
DE APPR.		-34	OPTIONAL CLAMP MODIFICATIONS NTS			
DATE	09.0	6.24	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMED OR COMMUNICATED TO AND OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DAYT AEROSPACE LTD.			